

Claims

[c1]

A modular channel joint structural system comprising:

a first elongated hollow member having a substantially rectangular cross-section with four sides including at least one end portion having aligned recesses on two opposite sides, said sides including corresponding transverse slots on said sides spaced a predetermined distance from the end thereof;

a second elongated hollow member having a substantially rectangular cross-section with four sides including at least one end portion having aligned recesses on two opposite sides, said sides including corresponding transverse slots on said sides spaced a predetermined distance from the end thereof;

a third elongated hollow member having a substantially rectangular cross-section and two outwardly extending opposite sides, said sides each having opposing apertures and protruding ends which engage the slots in the first and second members to hold said members in engagement, and.

a bolt engaging said apertures in the third member and the recesses in the first and second member to secure said members.

[c2]

A modular channel joint system in accordance with Claim 1 wherein:

the first, second and third members each include a second end portion having the same design as the first end portion.

[c3]

A modular channel joint system in accordance with Claim 1 wherein:

the first elongated hollow member includes an intermediate portion having a predetermined bend in said member.

[c4]

A modular channel joint system in accordance with Claim 3 wherein:

the second elongated hollow member includes an intermediate portion having a predetermined bend in said member.

[c5]

A modular channel joint system in accordance with Claim 4 wherein:

the third elongated hollow member includes an intermediate portion having a predetermined bend in said member.

[c6]

A modular channel joint system in accordance with Claim 1 further including:

a plurality of members similar to the first, second and third members may be coupled to a plurality of other members to form a modular structure.